

## ABSTRACTION

Processes which exists in manufacture company is so many kind. Each company have a way to process some goods by itself, it is can be seen not only from the difference type of product, but also in the same type of product. That conditions happened according to the tactical of management.

The process decided the value of productifity not only from quantity sides but also to quality sides. One of many factors which can increase the productifity is by using automation system. Using the automation system can decrease human error factors

This final project creating automation tool in labeling and Packaging for PT Supravisi Rama Optik, Mfg.

In designing of automation system, problem solving defines in five steps; preliminary study, initialization, creating, testing and analyzing, and also conclusion and suggestion. Preliminary study is the existing problem identification step and object determination that will be reached in this research. In the initialization will be done literature and field study. The next step is creating. In this step, PLC (Programmable Logic Controller) program will be created. To know are design result match with research target, after creating step will be done testing and analyzing. The final steps are conclusion and suggestion for the next research.

This final project defined in several chapters; first chapter are about background, writing target, final project benefit, and problem boundary. Second chapter contains literature study about Programmable Logic Controller (PLC. Third Chapter contains system modeling that will be created conceptually and also problem solving frame formulation. Fourth chapter explain about existing system analyzing, and also automation system design. System analyze that have been created, will be discussed in fifth chapter. And in sixth chapter explain a conclusion of this final project and also suggestion for next research or implementation.

The conclusion that could be taken from this final project is that labeling and packaging process automation system in PT Supravisi Rama Optik, Mfg will produce goods better and in high productivity, caused a new procces eliminates a mount of human being.

**Keywords :** Labeling and packaging , PLC

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